1058570PATICUAL

Case Docket No. KANEKO.014AUS

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first

class mail in an envelope addressed to: Commissioner for Patents,

December 22, 2006

P.O. Box 1450, Alexandria, VA 22313-1450, on

Date: December 22, 2006

Page 1

application of: Minoru Umemoto et al.

App. No.

10/585,707

Filed

July 19, 2006

For

PROCESS **FORMING ULTRAFINE** OF

CRYSTAL LAYER, MACHINE COMPONENT HAVING ULTRAFINE CRYSTAL LAYER FORMED

ULTRAFINE CRYSTAL LAYER FORMING PROCESS...

Examiner:

Unknown

Art Unit

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

Sir:

Transmitted herewith is a document for the above-identified utility application.

() An extension of time to respond for * month(s) is hereby requested.

Time Extension Fee:

- 0 one month (\$120 large entity)
- two months (\$450 large entity) 0
- three months (\$1020 large entity) 0

Enclosed are:

- (X) An Information Disclosure Statement (IDS) with PTO-1449 form and six references.
- (X) Return prepaid postcard.

asuo Muramatsu

Registration No. 38,684

Attorney of Record

114 Pacifica, Suite 310

Irvine, California 92618

(949) 753-1127

TRS-KN14 003

ANEKO.014AUS PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

icant : Minoru Umemoto et al.

Group Art Unit

Serial No. : 10/585,707

10/303,707

Filed : July 10, 2006

FOR : PROCESS OF FORMING)

ULTRAFINE CRYSTAL LAYER, MACHINE)

COMPONENT HAVING ULTRAFINE CRYSTAL LAYER)

FORMED BY THE ULTRAFINE CRYSTAL LAYER)

FORMING PROCESS, PROCESS OF PRODUCING)

THE MACHINE COMPONENT, PROCESS OF FORMING)

NANOCRYSTAL LAYER, MACHINE COMPONENT)

HAVING NANOCRYSTAL LAYER FORMED BY THE)

NANOCRYSTAL LAYER FORMING PROCESS, AND)

PROCESS OF PRODUCING THE MACHINE COMPONENT)

Examiner : Unknown

INFORMATION DISCLOSURE STATEMENT

Hon. Commissioner of Patents and Trademarks Alexandria, VA 22313-1450

Dear Sir:

Enclosed is a form PTO-1449 listing six references relevant to the above-identified application. A copy of each of the references is also enclosed herewith. This information disclosure statement is filed three months after the filing of the above-identified application but before the first office action on the merits, and no fee is required in accordance with 37 C.F.R. § 1.97(b)(1) and § 1.97(b)(3).

The prior art references cited in European Search Report in the counterpart European application. A copy of European Search

10585707 - GAU: 1793

Serial No. : 10/585,707
Filed : July 10, 2006

Report in English is attached which shows relevancy of each cited reference to the subject matter of the invention.

REMARKS

Applicant respectfully requests that the references disclosed in the statement be considered in the substantive examination of this case.

Respectfully submitted,

MURAMATSU & ASSOCIATES

Dated: (2/22/06

Y: Yahua Munam

Registration No. 38,684

Attorney of Record

114 Pacifica, Suite 310

Irvine, CA 92618 tel: (949) 753-1127

IDS-KN14.002 122206 OIPE IN 1 3 2007 W

Sheet 1

PTO/SB/08A (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/585,707			
Filing Date	07/10/2006			
First Named Inventor	Minoru Umemoto			
Art Unit				
Examiner Name				
Attorney Docket Number	KANEKO.014AUS			

		U. S. PATENT D	OCUMENTS		
Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
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	Cite No.1	No.1 Number-Kind Code ² (# known) US-	Document Number	No. Number-Kind Code ² (f known)	

Examiner Cite Initials* No.1	Cite No.1	Foreign Patent Document	IGN PATENT DOCL Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ *Number * *Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	Т
·		GB 884 447	12/13/1961	Blechner		
		GB 884 446	12/13/1961	Blechner		
		DE 198 48 033 C1	01/05/2000	Bosch		L
		DE 880 446 C	06/22/1953	Allgemeine		
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Examiner Signature	/Christopher Kessler/	Date Considered	12/21/2009	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the senal number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual cese. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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PTO/SB/08B (08-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO		re required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known				
		Application Number	10/585,707			
INFO	ORMATION	DIS	CLOSURE	Filing Date	07/10/2006	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Minoru Umemoto	
				Art Unit		•
(Use as many sheets as necessary)		Examiner Name				
Sheet	1	of	1	Attorney Docket Number	KANEKO.014AUS	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		Brinkseier et al. "Werkstoffgerechte Fertigugn", Carl Hanser Verlag, vol. 58, no. 6, 2003, pp336-343	
		Zurita et al. "Superficial Hardening in the Plane Grinding of ALSL 1045 Steel", Journal of Materials Engineering and Performance, ASM International, vol. 12, no. 3, June 2003	
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Examiner Signature	/Christopher Kessler/	Date Considered	12/21/2009	
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¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (end by the USPTO to process) an application. Confidentielity is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: